

THE CLAIMS

1. (Original) In a non-solid structural polyurethane adhesive composition comprising a polyurethane prepolymer reaction product of a polyisocyanate and a polyol composition and a curative for isocyanate groups, the improvement which comprises a polyurethane prepolymer reaction product consisting essentially of at least 80 wt% perfect prepolymers and less than 2 wt% free polyisocyanate monomer.

2. (Original) The structural adhesive of Claim 1 in which the polyurethane prepolymer reaction product consists essentially of at least 90 wt% perfect prepolymers.

3. (Original) The structural adhesive of Claim 1 in which the polyurethane prepolymer reaction product consists essentially of less than 0.5 wt% free polyisocyanate monomer.

4. (Original) The structural adhesive of Claim 1 in which the polyisocyanate is hexamethylene diisocyanate, phenylene diisocyanate, toluene diisocyanate (TDI) 4,4'-diphenyl-methane diisocyanate (MDI), isophorone diisocyanate (IPDI) or bis-(4-isocyanatocyclohexyl) methane.

5. (Original) The structural adhesive of Claim 1 in which the polyol is a polyether polyol or a polyester polyol.

6. (Previously presented) The structural adhesive of Claim 4 in which the polyol is a polyether polyol or a polyester polyol.

7. (Previously presented) A method for adhesively joining or sealing two substrates using a structural polyurethane adhesive composition which comprises applying onto a substrate the non-solid structural polyurethane adhesive composition of Claim 1, and contacting the adhesive composition disposed on the substrate with a second substrate such that a bond is formed.

8. (Original) The method of Claim 7 in which the polyurethane prepolymer reaction product consists essentially of at least 90 wt% perfect prepolymers.

9. (Original) The method of Claim 7 in which the polyurethane prepolymer reaction product consists essentially of less than 0.5 wt% free polyisocyanate monomer.

10. (Original) The method of Claim 7 in which the polyisocyanate is hexamethylene diisocyanate, phenylene diisocyanate, toluene diisocyanate (TDI), 4,4'-diphenylmethane diisocyanate (MDI), isophorone diisocyanate (IPDI) or bis-(4-isocyanatocyclohexyl) methane.

11. (Original) The method of Claim 7 in which the polyol is a polyether polyol or a polyester polyol.

12. (Previously presented) The method of Claim 10 in which the polyol is a polyether polyol or a polyester polyol.